US Army Corps of Engineers

Speaker

Title

U. S. Army Corps of Engineers

Date

U.S.ARMY

US Army Corps of Engineers

BUILDING STRONG®

USACE provides value for our Nation in many ways to diverse stakeholders.

- We deliver positive impacts for today and tomorrow – in construction, natural resource management, energy and sustainability, and capacity building, and more . . . .
- We have the "right" people: world-class professional civilians and soldiers.
- We are U.S. Army *"ambassadors"* on a daily basis to political leaders, America's small businesses, and to citizens wherever we serve them . . . .

USACE Vision

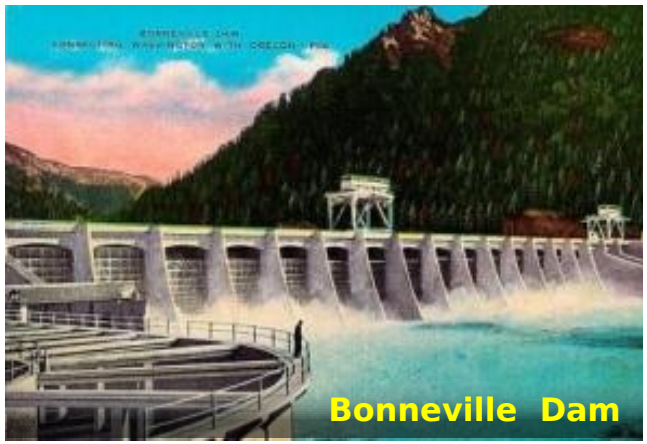
Engineering solutions for the Nation's toughest challenges.

USACE Mission

Deliver vital engineering solutions, in collaboration with our partners, to secure our Nation, energize our economy, and reduce risk from disaster.

U.S. Army Corps of Engineers

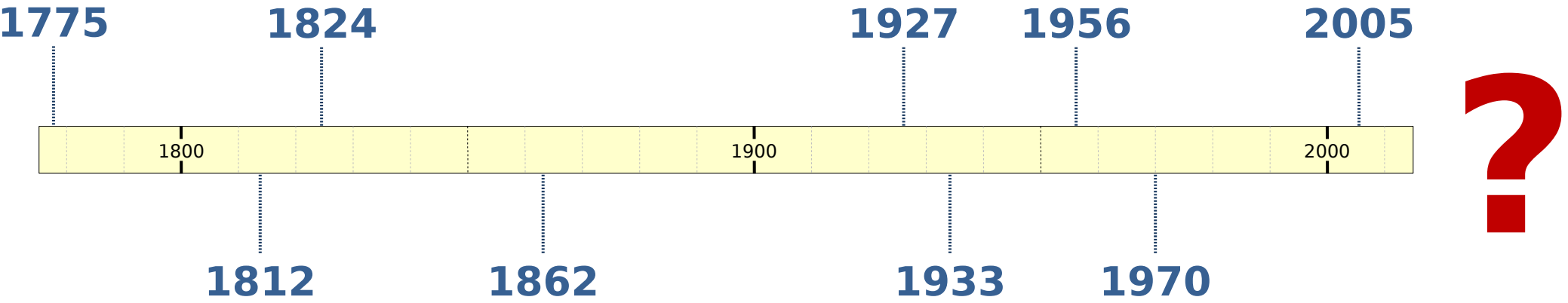
239 Years of Service to the Nation

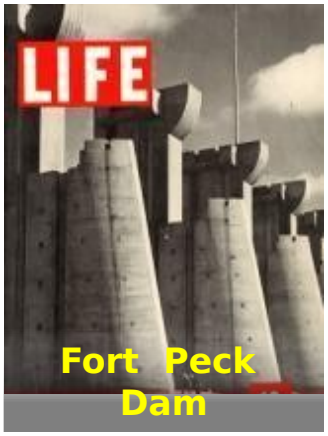


USACE in our Nation's History

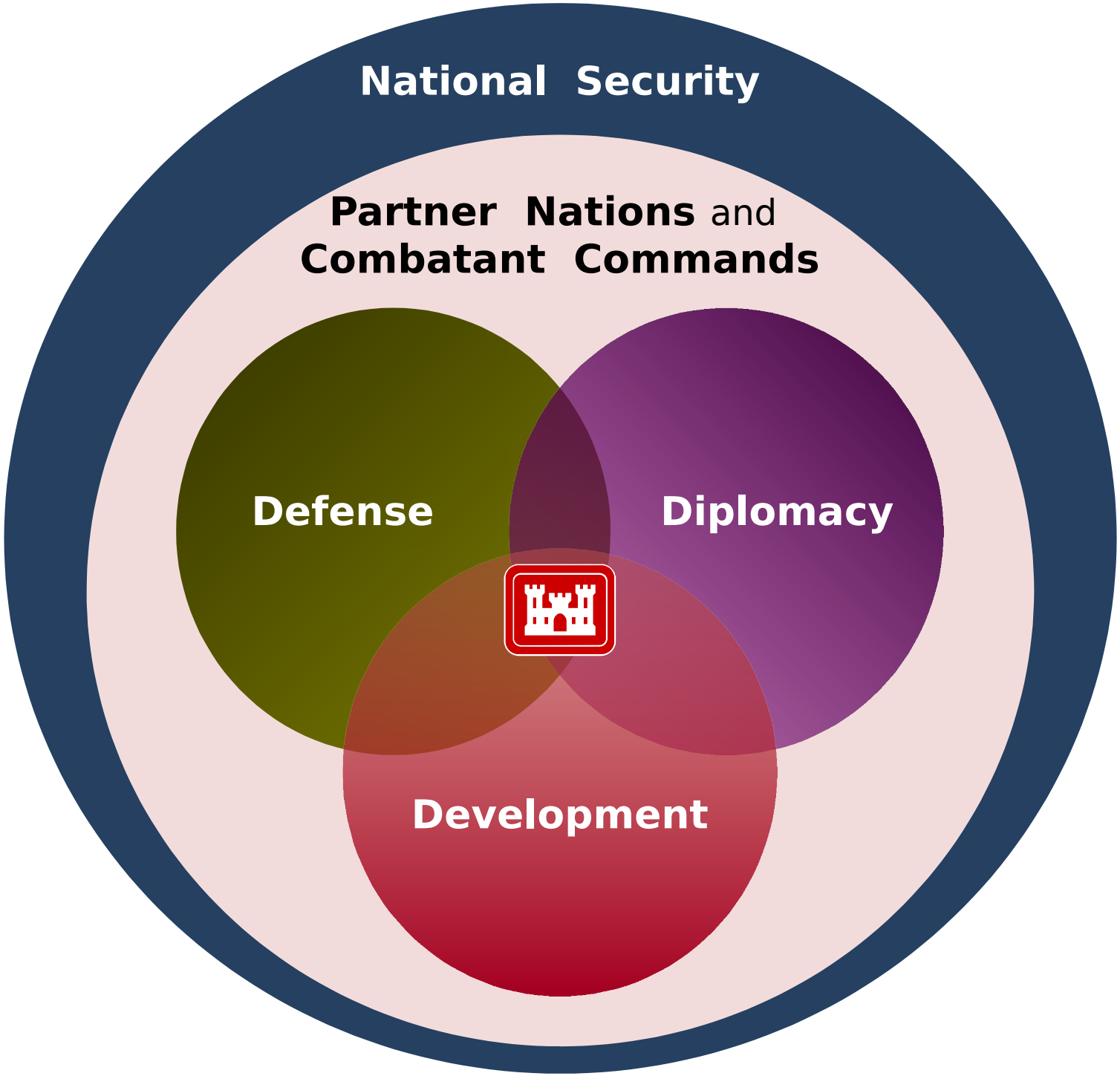
" America's history is, in large part, a story of infrastructure. "

Great Mississippi River Flood
GREENVILLE'S UNDER WATER
LEVEE AT SCOTT CRUMBLES
Vicksburg Evening Post.
RIVER HERE MAY GO TO 59 FEET

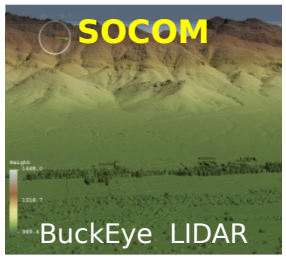




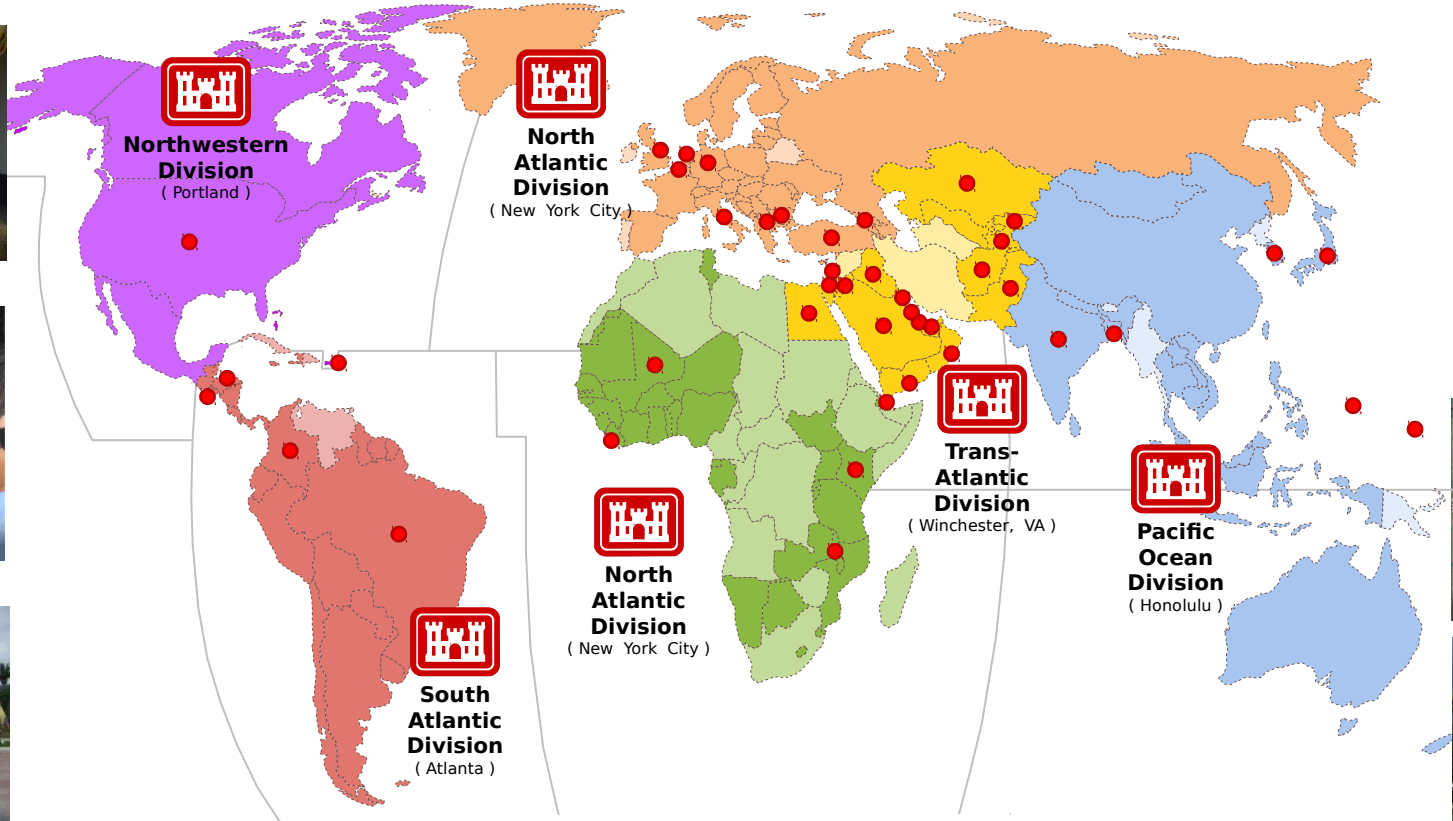
National Security Strategy: Our USACE Role



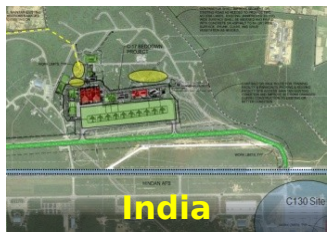
USACE is Regionally Aligned; Globally Responsive



Engagement (132+ Countries) **Physical Presence** (43 Countries)



33K civilians have deployed to contingency operations; 11K from USACE



USACE Mission Areas

Military Missions

Military Construction

COCOM Support, Overseas Contingency Operations (OCO)

Installation Support, Environmental, Energy and Sustainability

Civil Works

Navigation, Flood Control, Disaster Response, Shore Protection, Hydropower, Water Supply, Regulatory, Recreation, Environmental Restoration

Contingency Operations

"Whole of Government" Disaster Response and Recovery

Life-Cycle Flood Risk Management

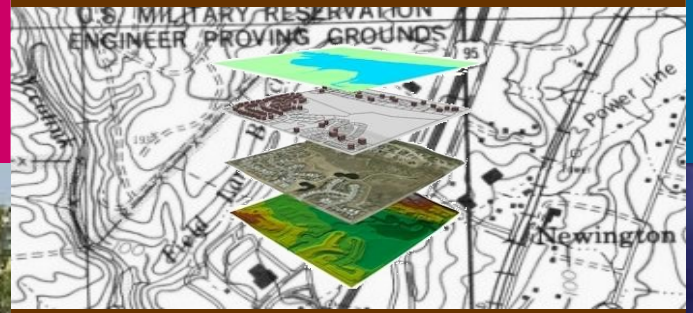
Critical Infrastructure

Geospatial Support

Federal / State / Local

"Whole of USACE" Capabilities

Capacity Development



Common Operating Picture / Environment

Civil Works Programs

Military Programs

Emergency and Contingency Operations

Warfighter

Installations and Energy

Environment

Water Resources

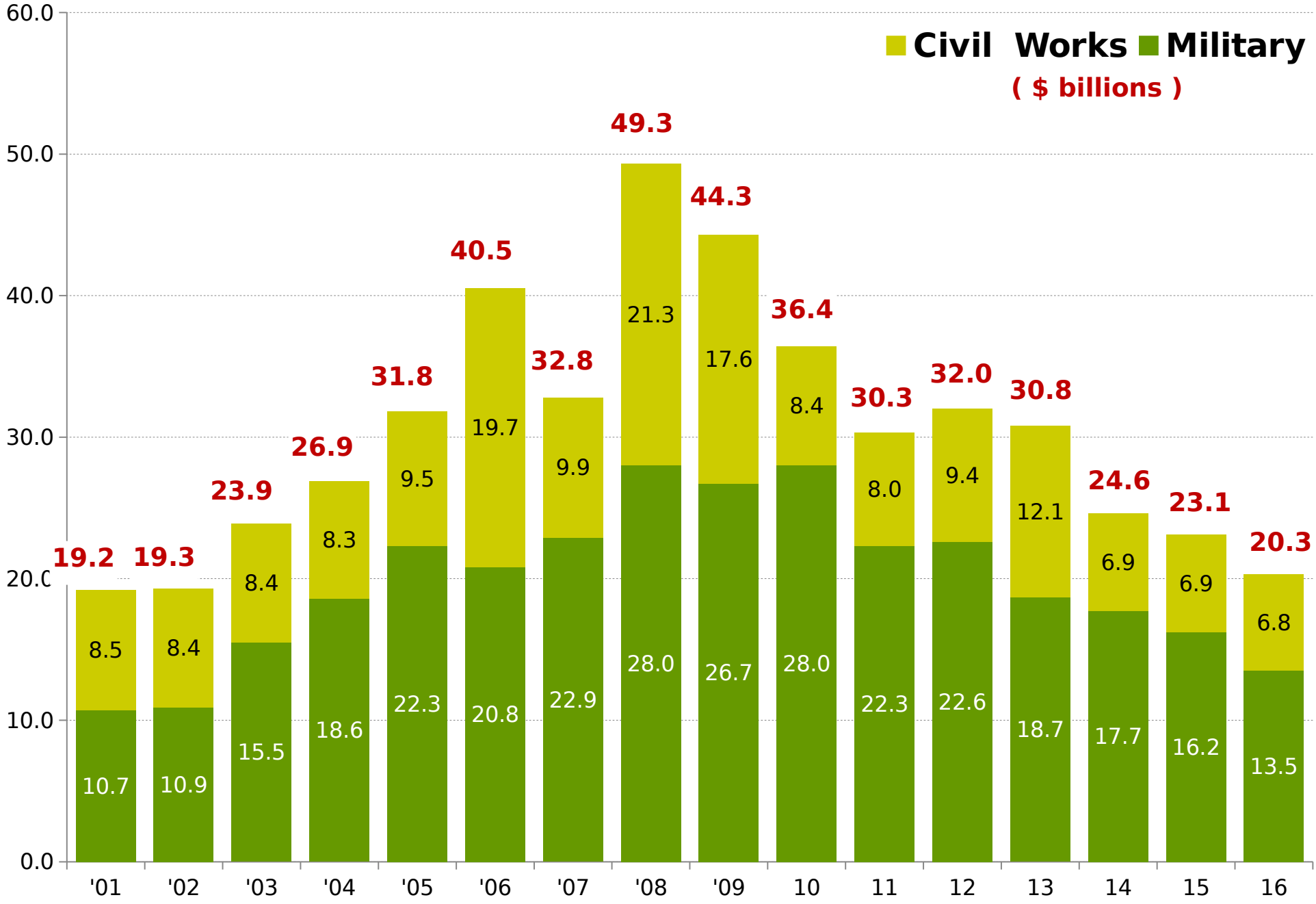
International and Interagency

Research and Development

Real Estate – Acquire, Manage and Dispose / DoD Recruiting Facilities / Contingency Operations

USACE Has a Diverse Mission Set Driven by Diverse Customers

The USACE Program



(4 Goals) USACE Campaign Plan (12 Words)

1 Support the Warfighter

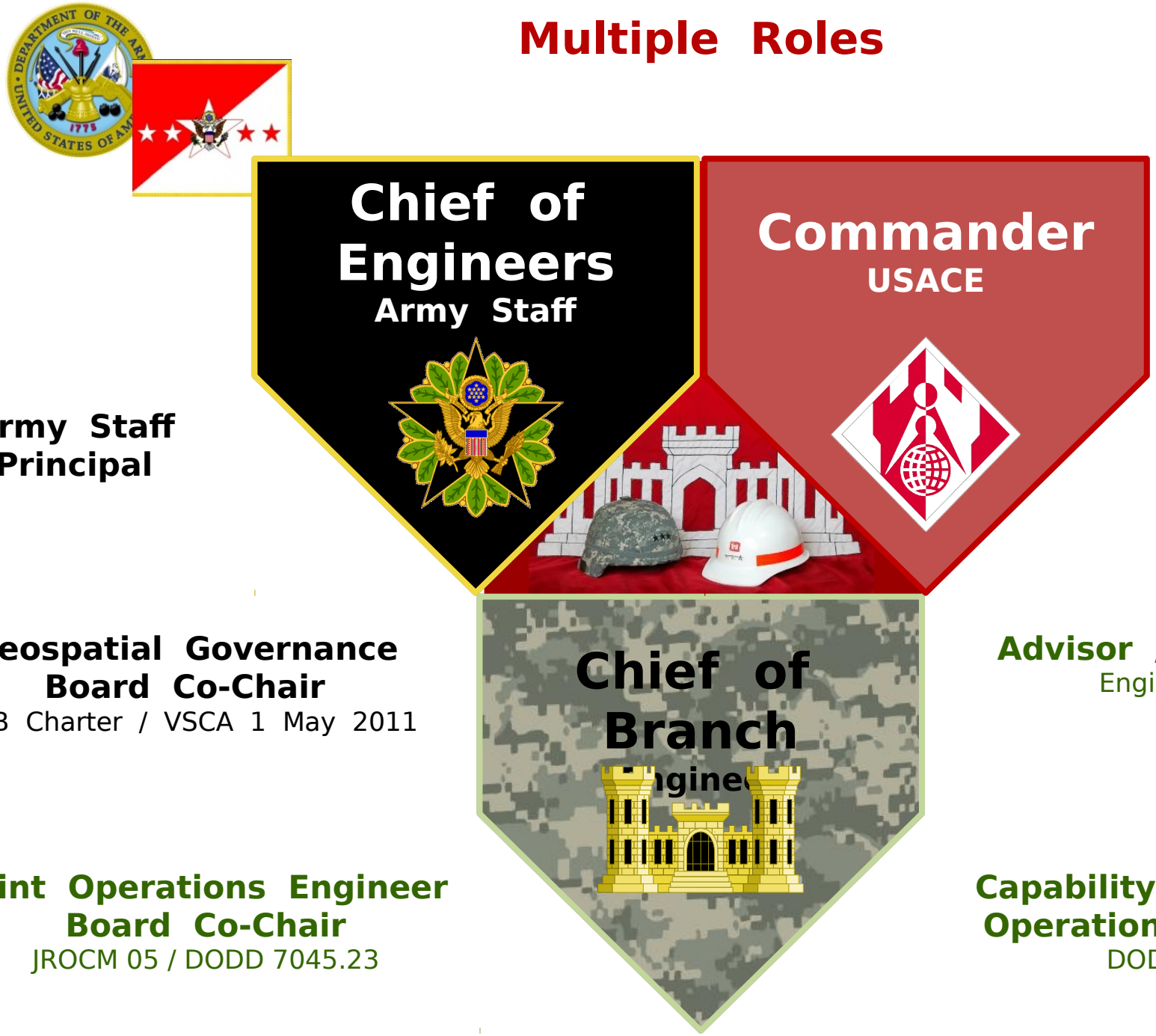
2 Transform Civil Works

3 Reduce Disaster Risk

4 Prepare for Tomorrow

Engineering Solutions to the Nation's Toughest Challenges

Multiple Roles



Army Staff Principal

Direct Reporting Unit Commander
General Order No. 3
Army Regulation 10-87

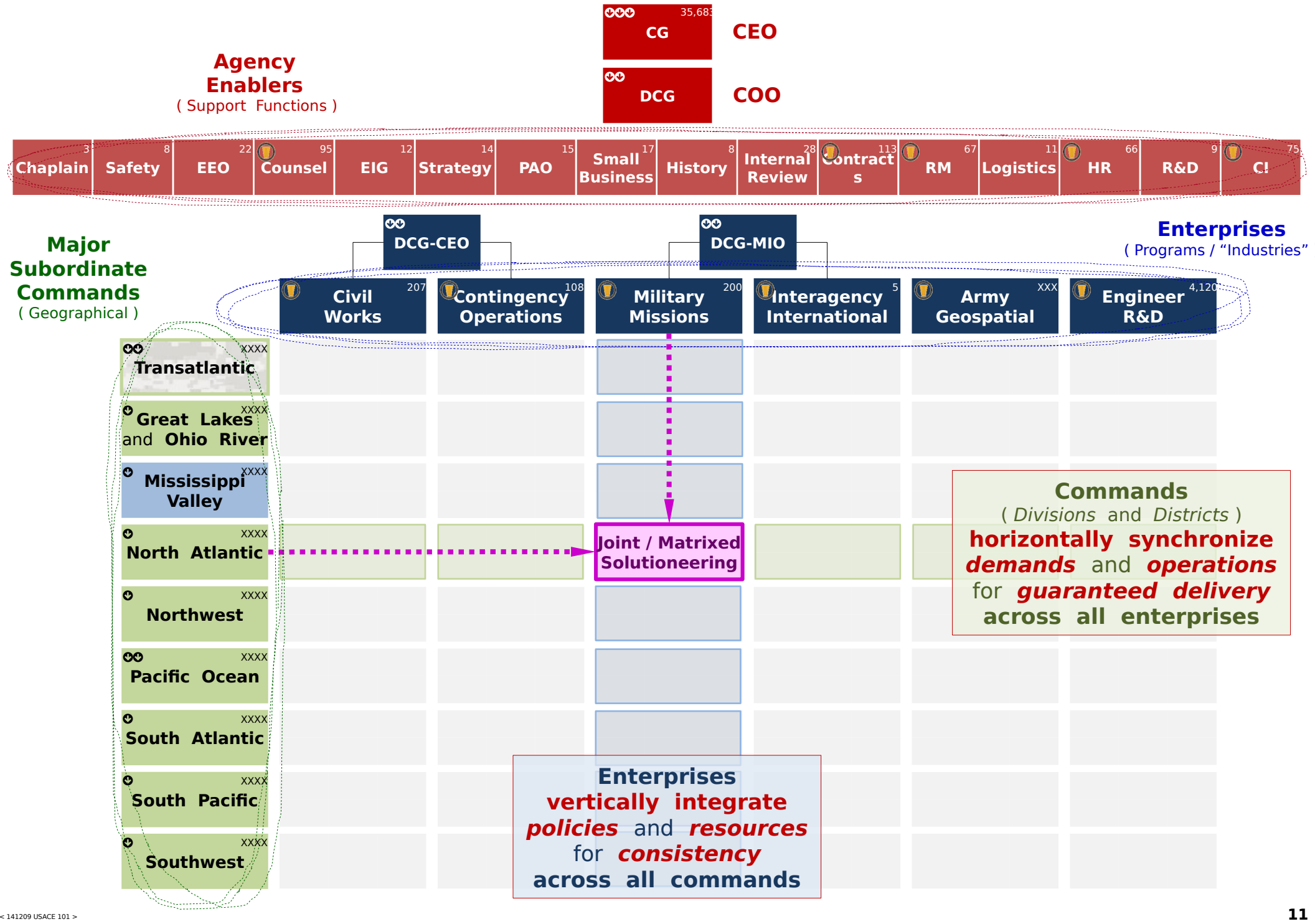
Geospatial Governance Board Co-Chair
GGB Charter / VSCA 1 May 2011

Advisor / Senior Mentor
Engineer Regiment

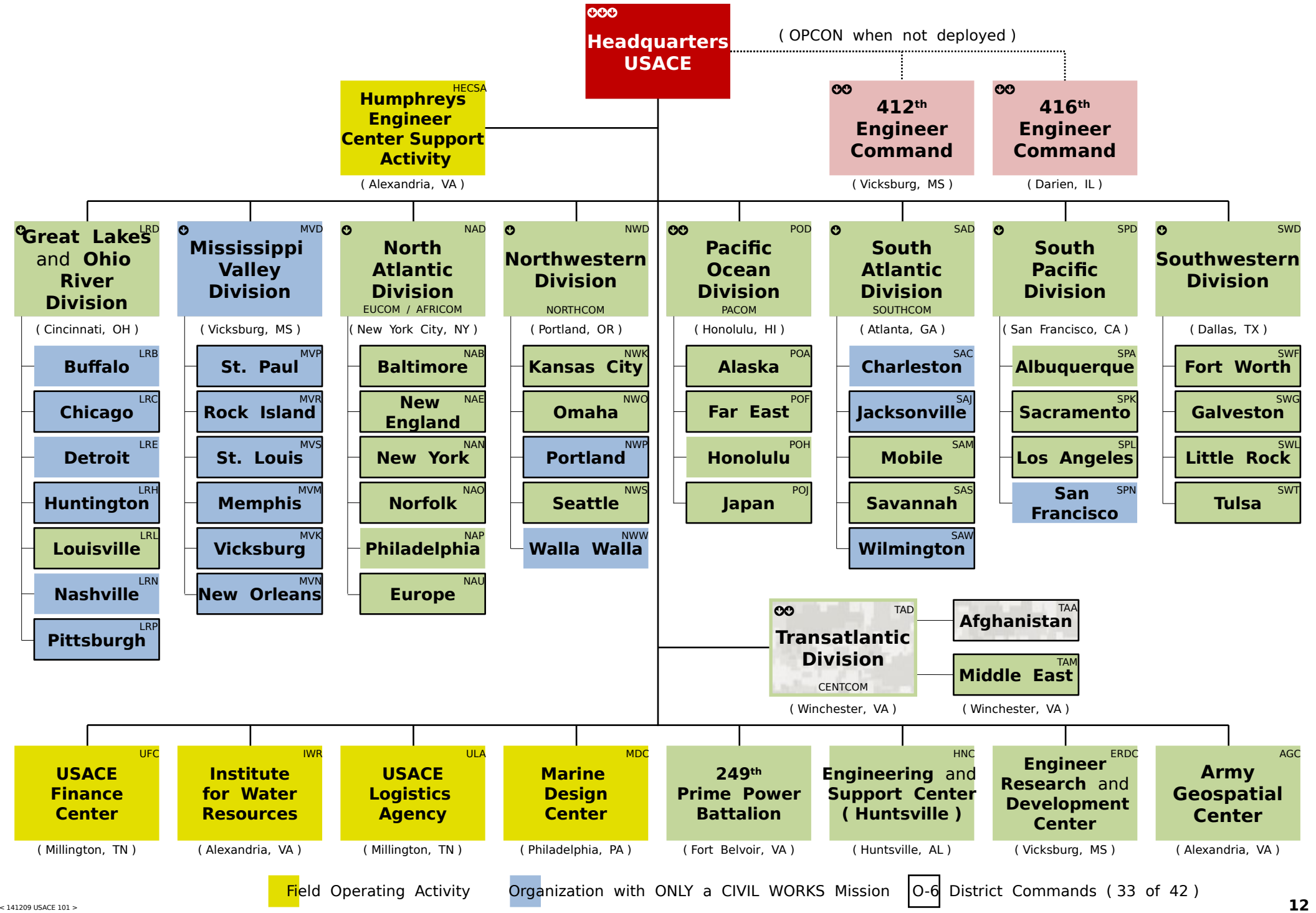
Joint Operations Engineer Board Co-Chair
JROCM 05 / DODD 7045.23

Capability Area Manager Operational Engineering
DODD 7045.23

USACE Structure and Business Model

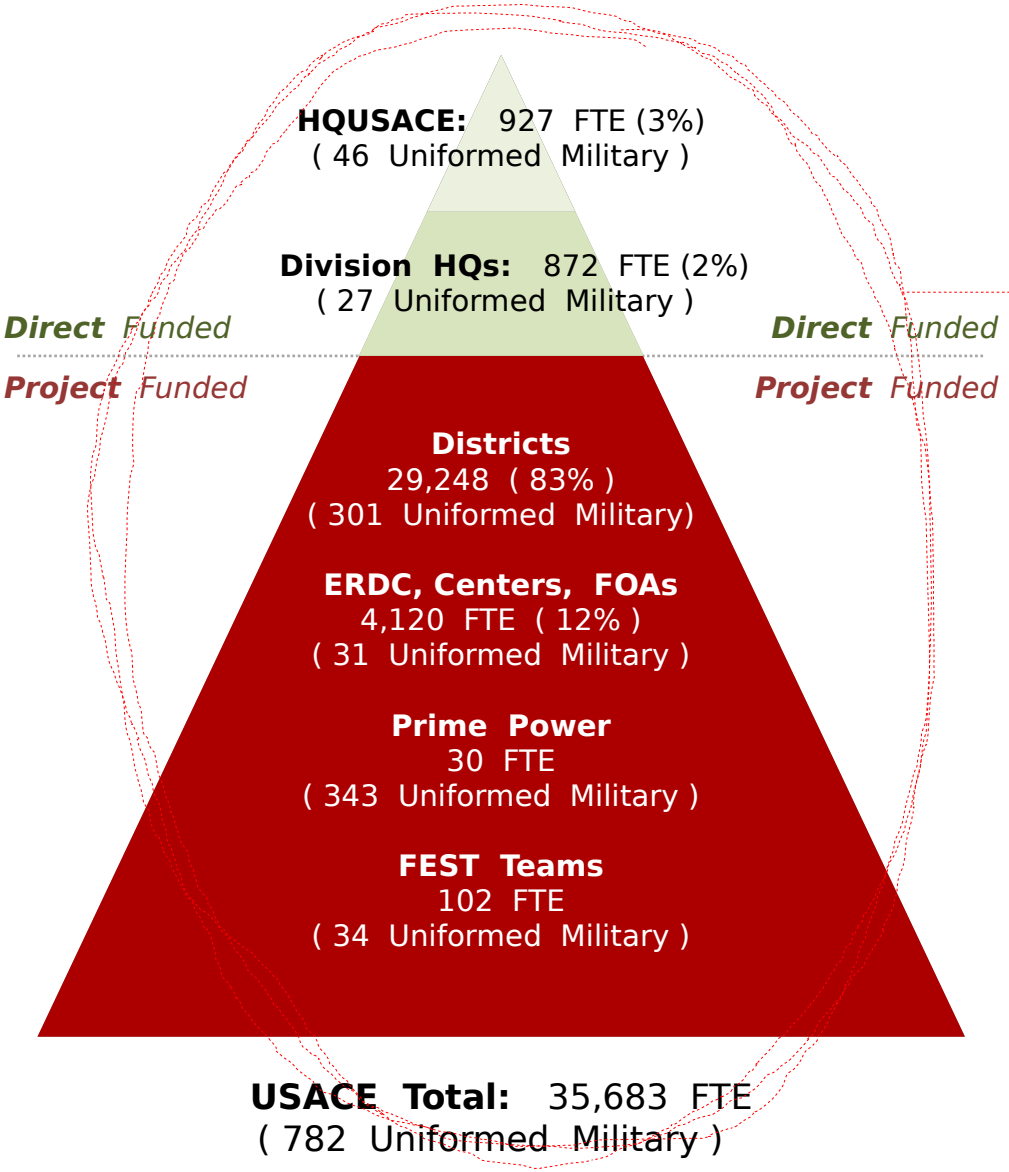


Organizational Structure

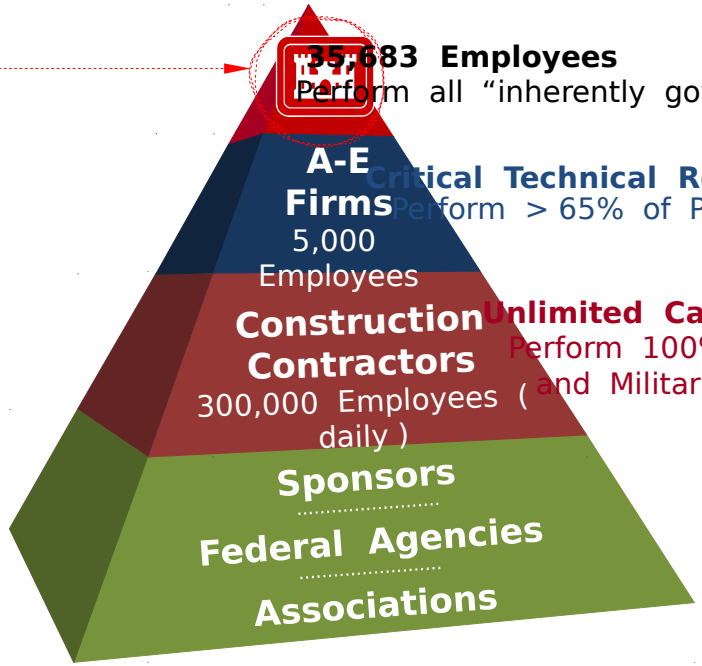


USACE Organization and Manpower

Civilian Full Time Equivalents (FTE) and Uniformed End Strength (ES)



USACE Total: 35,683 FTE
(782 Uniformed Military)



USACE Maintains a Balance Between In-sourced and Outsourced Work

Workforce Size Driven by Customer Programs – 95% FTE Project Funded

Districts are "Self-Financing" by Projects

Project – Based Funding

$ Income $
(for Projects)

- Military Interdepartmental Purchase Requests (MIPRs)
- Funding Authorization Documents (FADs)
- Contributed Funds

Business – Type Accounting

Capital Budgeting

Activity – Based Costing

Complex Revolving Fund

Workforce – Workload Balancing

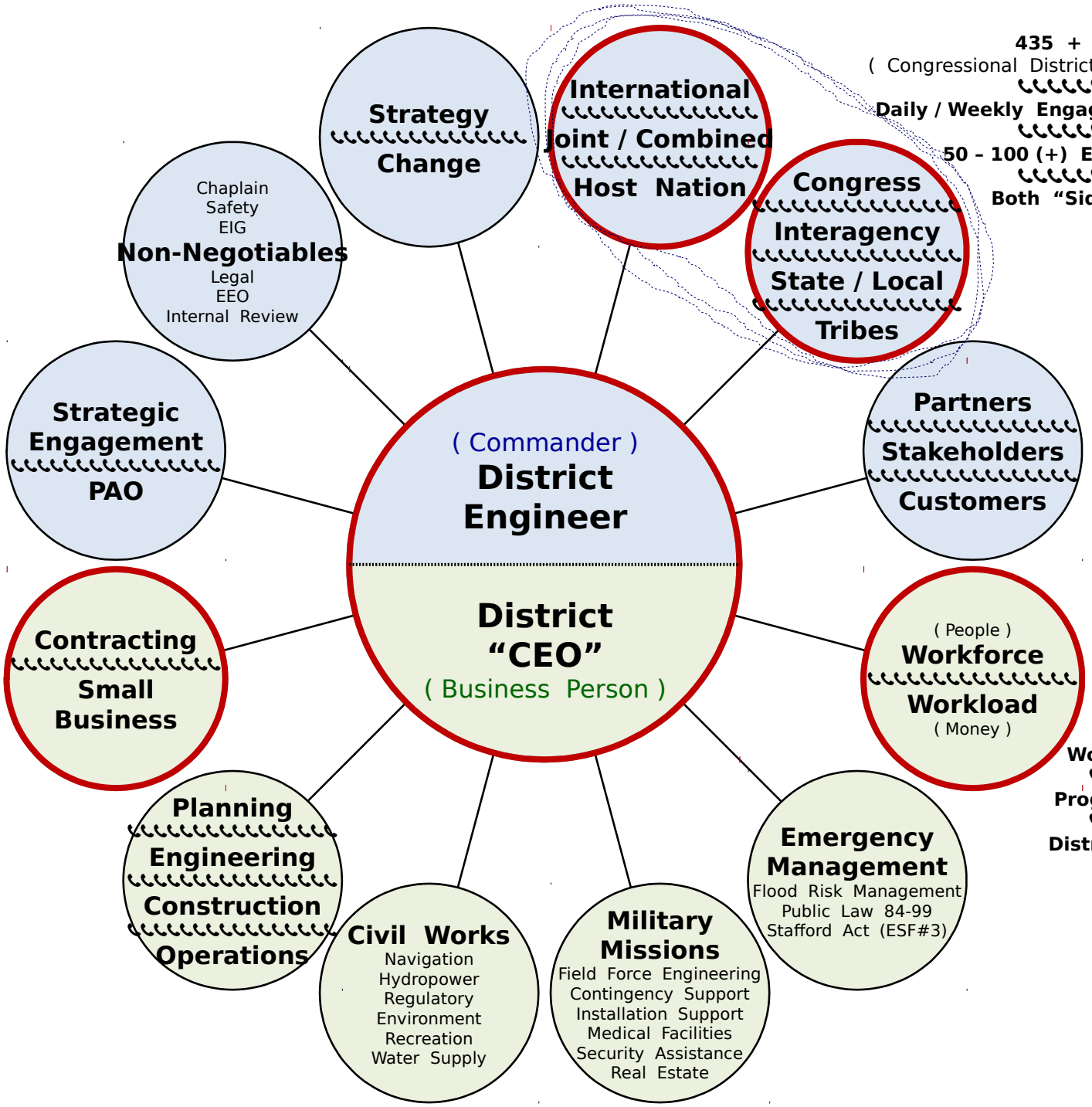
$ Expenses $
(for Workforce / Overhead)

- Salaries
- Contracts
- Equipment
- Supplies
- Facility Services
- Rent
- Other

stricts must "turn a profit" to fund their workforce and overhead costs / initiativ

"Soldier – Statesman – CEO" District Commanders (LTC / COL)

Commander + Business Person + JIIM Operator + 4X "Political" Engagement (> most GOs)



435 + 50 + 513 + 9
(Congressional Districts / States / Tribes / COCO

Daily / Weekly Engagement w/ Members / Sta

50 – 100 (+) Engagements Annually

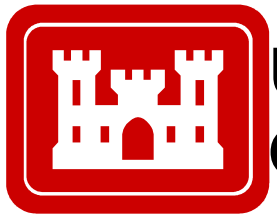
Both "Sides of the Aisle"

Workforce = 100+ – 1000+

Programs = $100M+ – $1B+

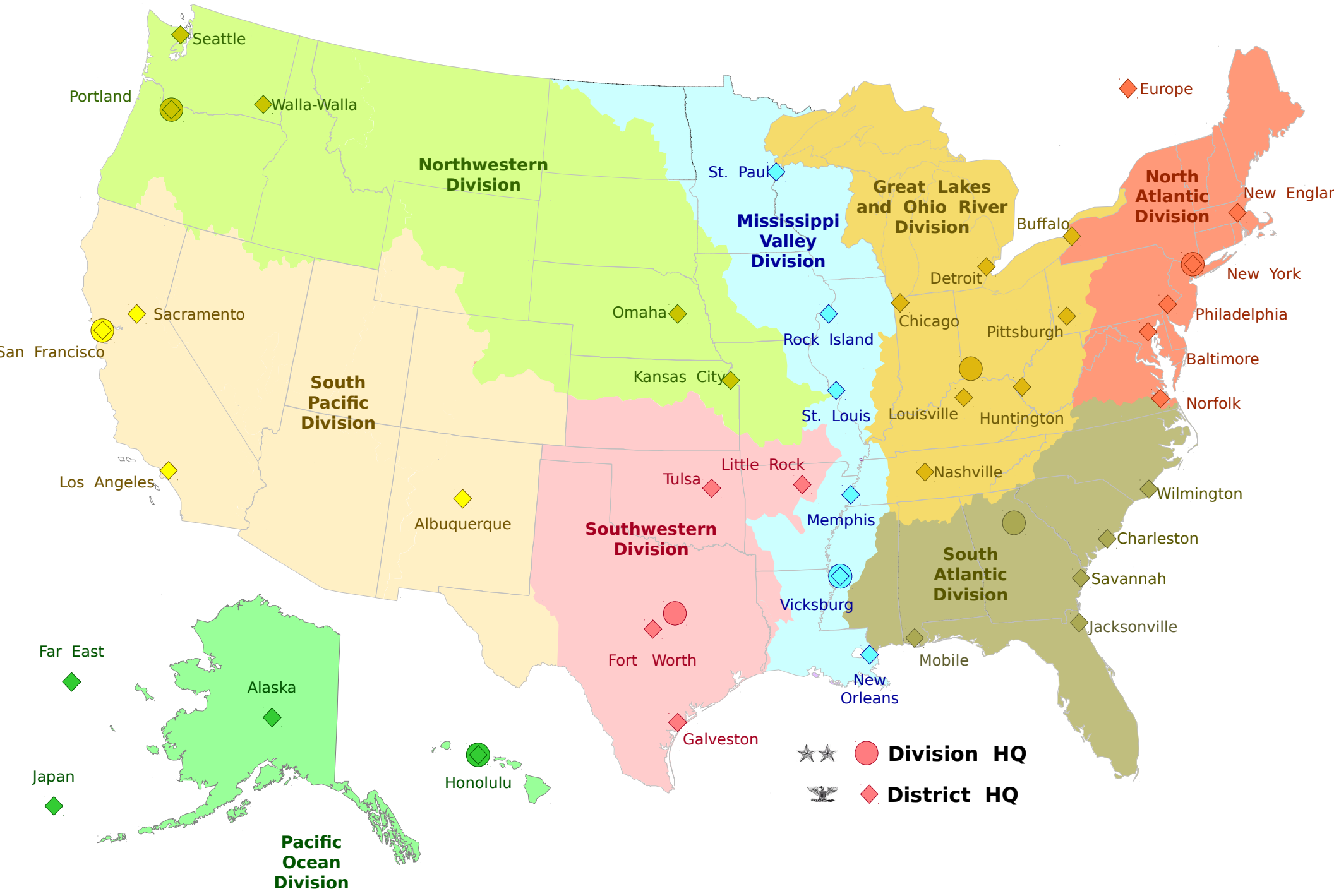
Districts 100% Reimbursable

USACE Civil Works



U. S. Army
Corps of Engineers

Civil Works Divisions and Districts



USACE Civil Works

Deliver enduring and essential water resource solutions using effective transformation strategies.

Lock and Dam 15
Navigation / Mississippi River

Flood Wall
Flood Risk Management / Williamson, KY

Florida Everglades
Ecosystem Restoration / South Florida

New Orleans, LA
Flood Risk Management / HDRRS

Navigation

Flood Risk Management

Ecosystem Restoration and **Infrastructure**

Recreation and **Natural Resource Management**

Hydropower

Regulatory
Wetlands and Waterways

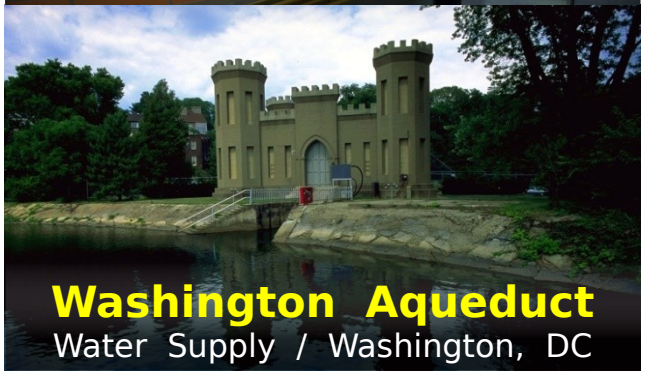
Water Supply

Expenses
Includes ASA(CW)

Dredge ESSAYONS
Navigation / Coos Bay, OR

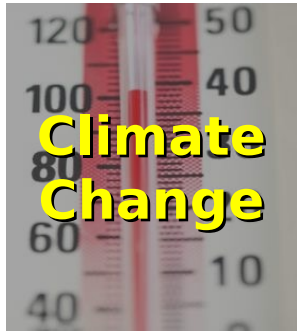
Lake Seminole, GA
Recreation / Mobile District

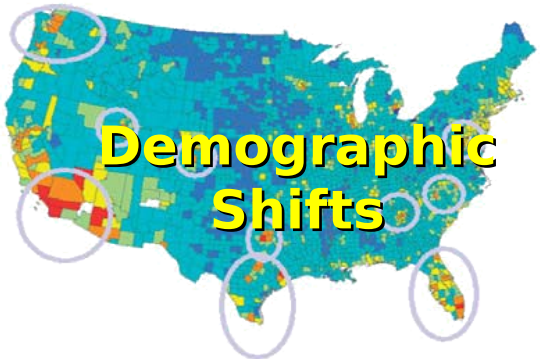
Bonneville II Powerhouse
Hydropower / Columbia River

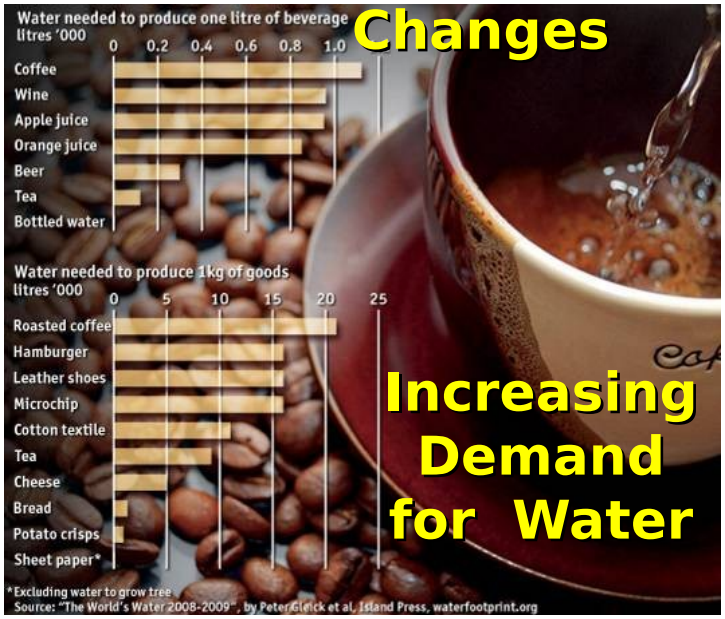


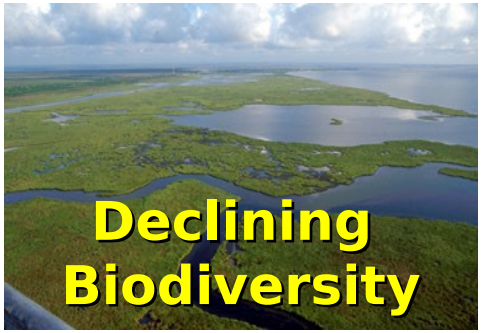
Washington Aqueduct
Water Supply / Washington, DC

National Water Resource Challenges









Our Nation's Infrastructure GPA D+

Securing Our Nation's Future Through Water

Navigation - Moving goods to market

USACE operates 13,000 miles of Commercial Inland Waterways; generates $18 B / 500,000 jobs, annually

Flood and Disaster Risk Reduction

USACE prevents > $6 in flood damages for every $1 invested

Hydropower - Inexpensive and sustainable

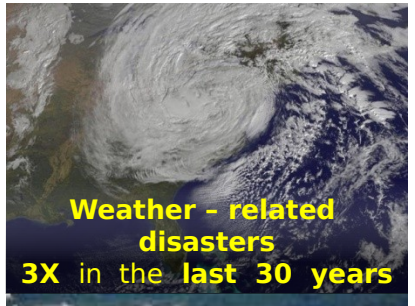
USACE is the Nation's largest renewable energy producer

Drinking Water

USACE produces 6.5 billion gallons per day

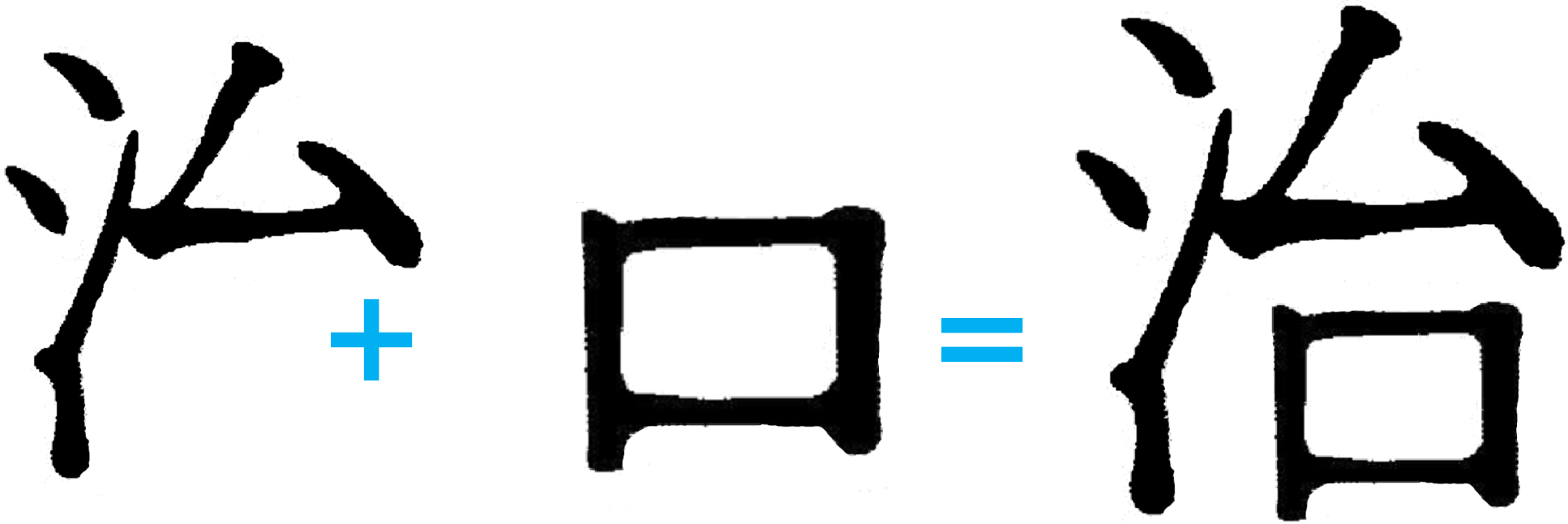
Quality of life

USACE is the No. 1 Federal provider of outdoor recreation contributing > $16 B to local economies



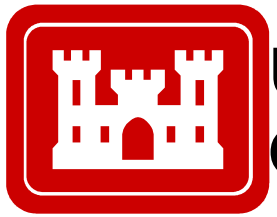
Water Management (and Water Reform)
is ALWAYS political . . . .

Ancient Chinese Characters:



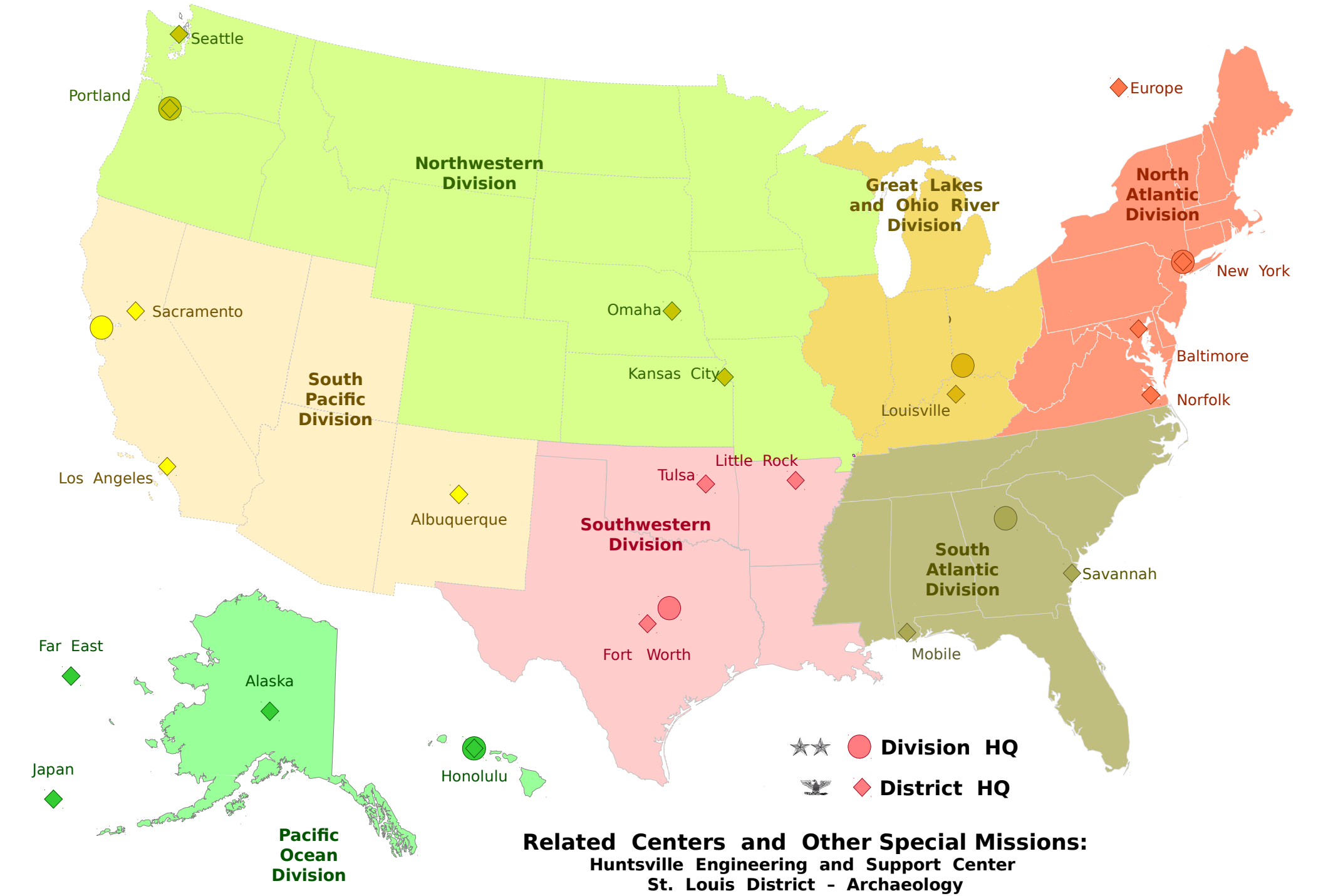
River + Dike = Political Order

USACE Military Missions



U. S. Army
Corps of Engineers

Military Missions Divisions and Districts



Related Centers and Other Special Missions:

Huntsville Engineering and Support Center
St. Louis District – Archaeology
Mobile District – Panama, Puerto Rico
Transatlantic Division – USACE Deployment Center

USACE Military Missions

Deliver innovative, resilient and sustainable solutions to the Department of Defense and the Nation.

Military Construction
Army / Air Force

Overseas Contingency Operations (OCO)

Support to Combatant Commands

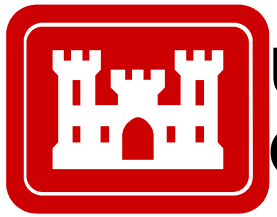
Installation Support

Environmental

Real Estate

Interagency and International

USACE Contingency Operations



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Life-Cycle Risk Management

Getting Ready

Actions taken **BEFORE** the event, including planning, training, and preparations.

Flood Risk Management system assessment / inspections

Monitoring / forecasting threats

State and Local Coordination

Reservoir operations

Flood Fight Preparation

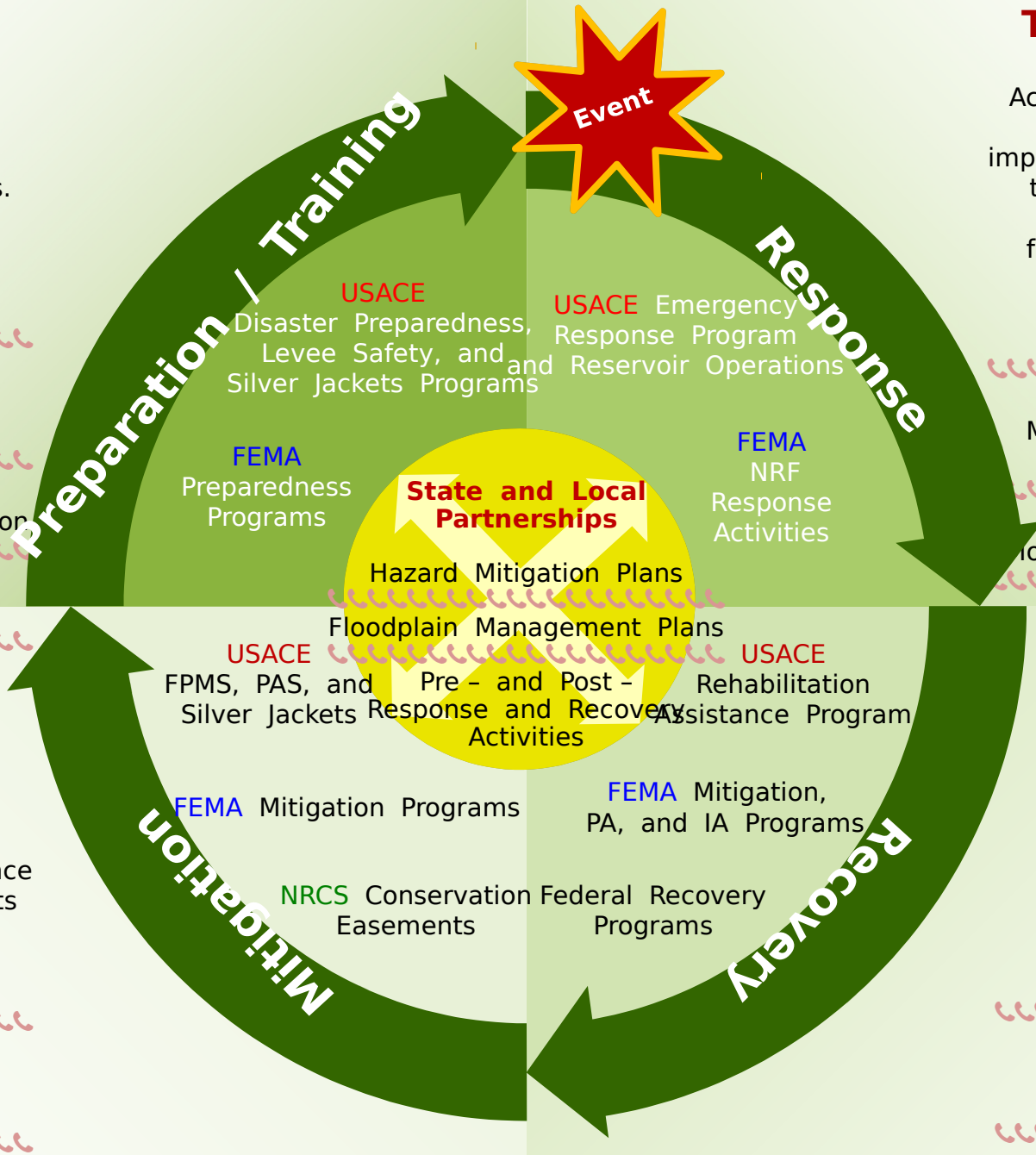
Driving Down the Risks

Activities that **PREVENT** a disaster, reduce its chance of happening, or reduce its damaging effects.

Modify mitigation plans

Identify future mitigation opportunities

Develop system improvements



The Flood Fight

Actions taken **DURING** the initial impact of a disaster, including those to save lives and prevent further property damage.

Emergency system strengthening

Monitor and report flood impact

Monitor system performance

Support State / Local FF

Getting back on our feet

Actions taken **AFTER** the initial impact, including those directed toward a return to normalcy.

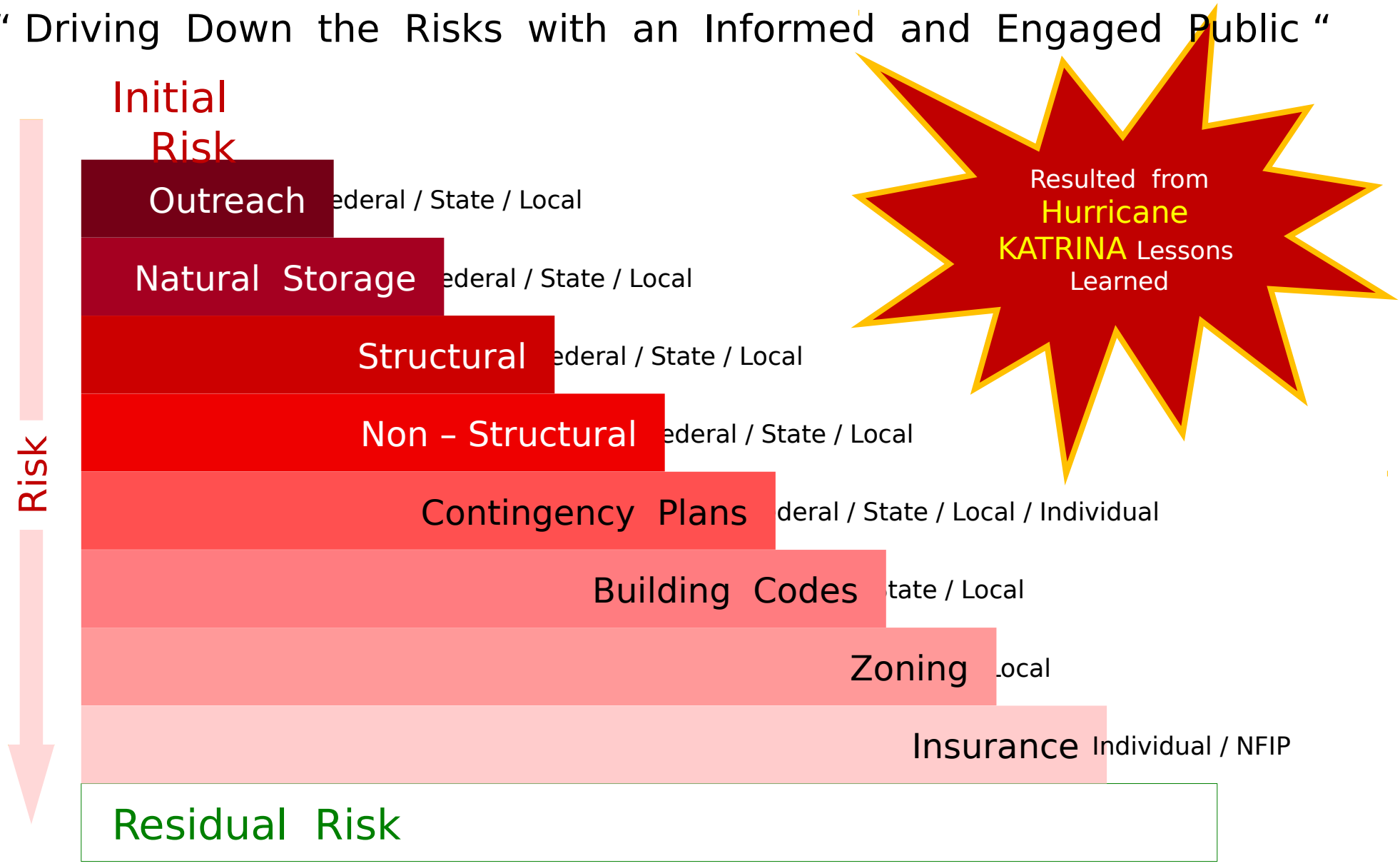
Repair damaged systems

Assess and document system performance

Implement mitigation measures / system improvements

Shared Disaster Risk Management

" Driving Down the Risks with an Informed and Engaged Public "



All Stakeholders contribute to reducing risk !

National Flood Risk Management

Vision

Lead collaborative, comprehensive and sustainable national flood risk management to improve public safety and reduce flood damages to our country

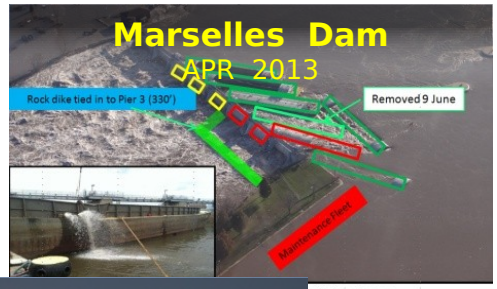
Mission

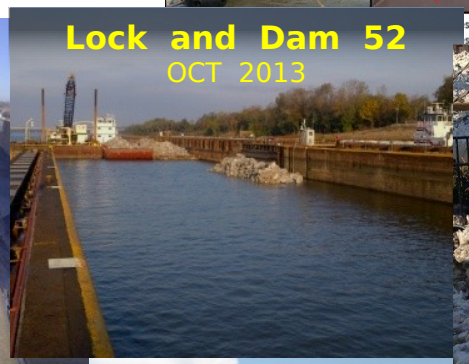
Integrate and synchronize USACE flood risk management projects, programs, and authorities with counterpart projects, programs, and authorities of other Federal agencies, state organizations, and regional and local agencies

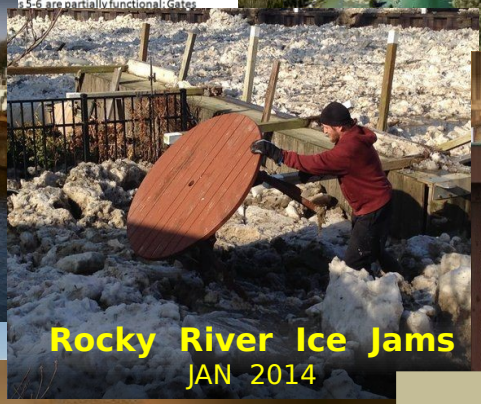
Strategic Goals

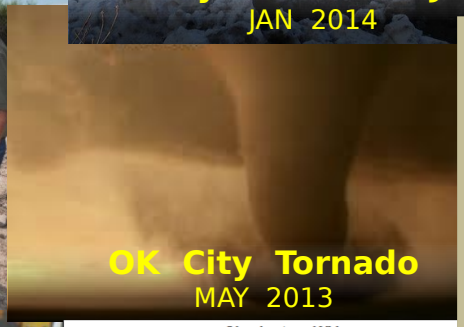
- Provide current accurate floodplain information to the public and decision makers
- Identify and assess flood hazards posed by aging flood damage reduction infrastructure
- Improve public awareness and comprehension of flood risk
- Integrate flood damage / hazard reduction programs across local, state, and Federal agencies
- Improve capabilities to collaboratively deliver and sustain flood damage reduction and flood hazard mitigation services to the nation

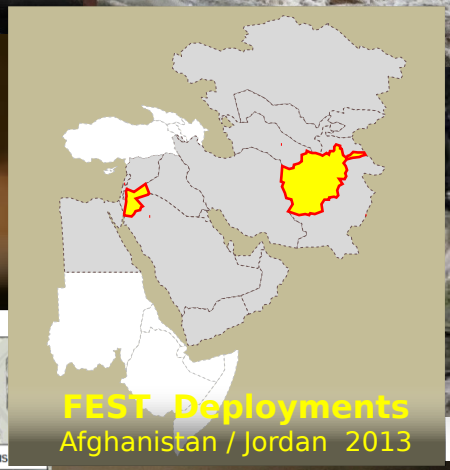
Key 2013 / 2014 Responses

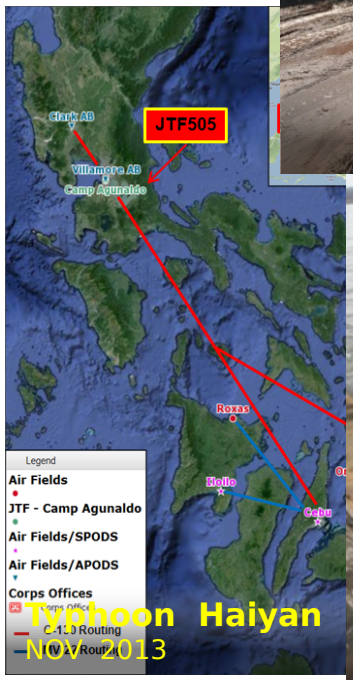


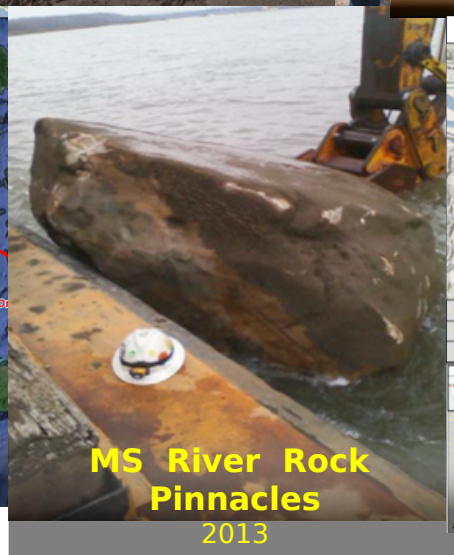


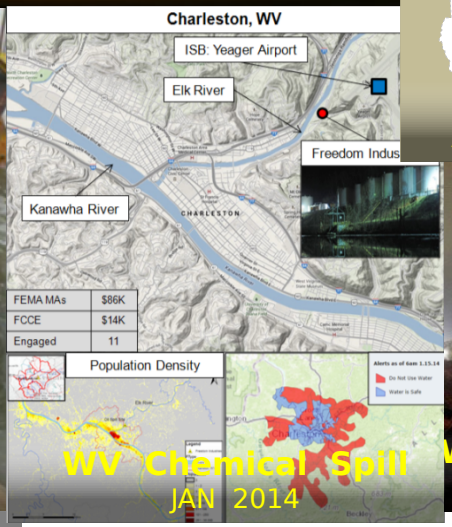


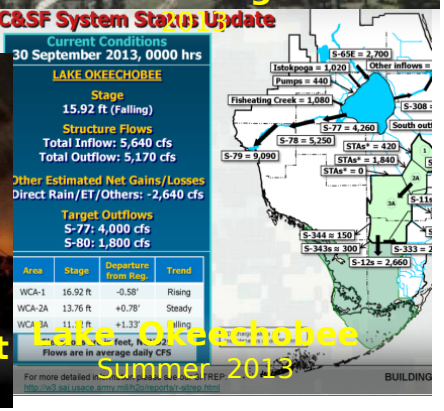












The Tale of Two Storms . . . Katrina and Sandy

Pre-Katrina "System" 2005

50% complete after 50 years

$130 B in Recovery Costs

1500 Lives Lost

New Orleans Before and After Katrina

$14B Post-Katrina System

Designed and Constructed in 6 years

Performed Successfully during Hurricane ISAAC

Sandy Impacts

24 US States affected•

Over 8.5 million without power

Damages ~ $65 B

13-foot surge in Lower Manhattan

USACE Response / Recovery Missions

Temporary Power and Housing

Un-watering / Pump

Debris

Water

Infrastructure Assessment

Coastal Restoration

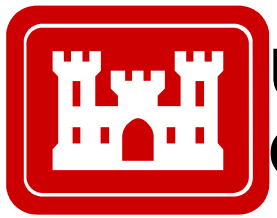
$351M Response + $5B Recovery

200+ projects and studies along the east coast

Brooklyn Battery Tunnel

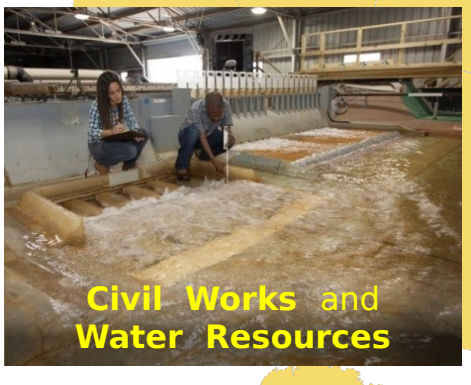
85 million gallons of water removed . . . . . enough water to fill the Rose Bowl !

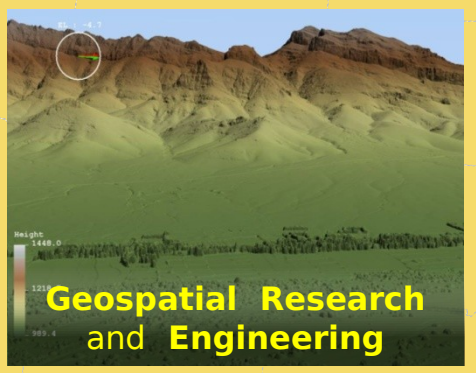
USACE Research and Development



U. S. Army
Corps of Engineers

Engineer Research and Development Center





Cold Regions Research and Engineering Laboratory
Hanover, NH

Construction Engineering Research Laboratory
Champaign, IL

Geospatial Research Laboratory
(Army Geospatial Center)
Alexandria, VA

ERDC Headquarters
Vicksburg, MS

Coastal and Hydraulics Laboratory
Environmental Laboratory
Geotechnical and Structures Laboratory
Information Technology Laboratory

$1.3 B Annual Program

2500 Employees

(1800 Full Time Federal / > 1,000 Scientists and Engineers / 32% PhDs / 44% MS degrees

$1.2 B Unique Research Facilities / Equipment

77 Active Patents

Laboratories Field Offices

Support to the Army and the Nation, Leveraging Technical Engineer Capabilities with R&D

Enable Theater Access

Rapid Airfield Construction

Force Protection

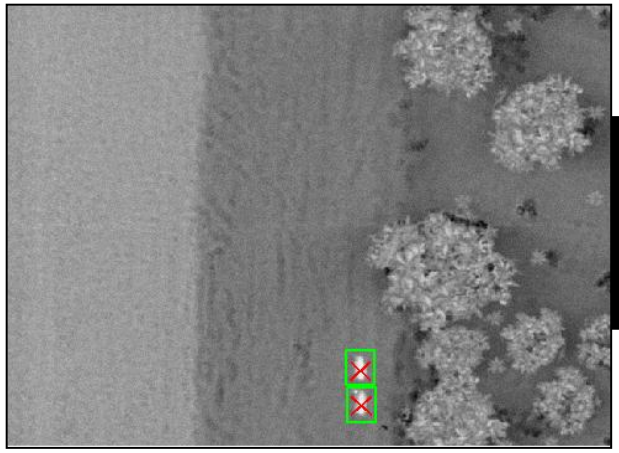
Structural Retrofit

Chemical and Biological

Immune Buildings

Counter Rocket, Artillery & Mortar

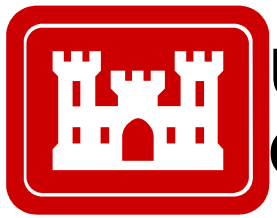
Countermine Phenomenology



IED Simulation and Detection

Countermine Phenomenology Test bed

Army Geospatial Center



U. S. Army
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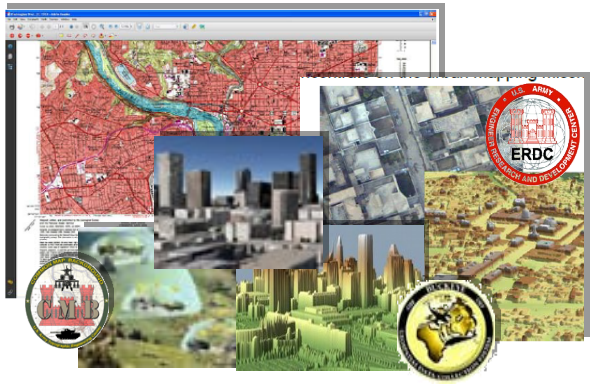
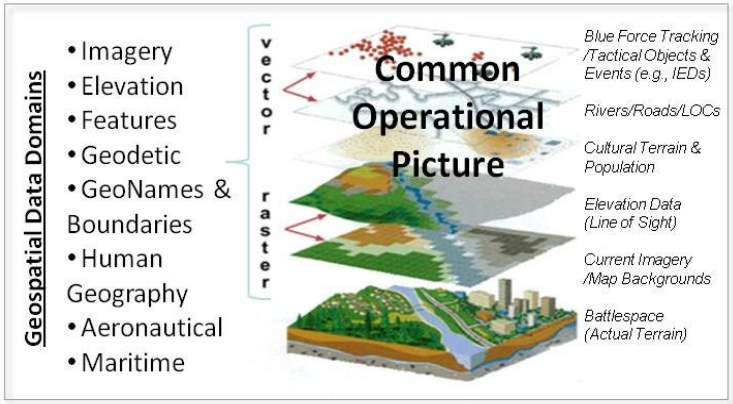
Mission: **The AGC provides timely, accurate and relevant geospatial information, capabilities and domain expertise for Army Geospatial Enterprise implementation in support of full spectrum operations**

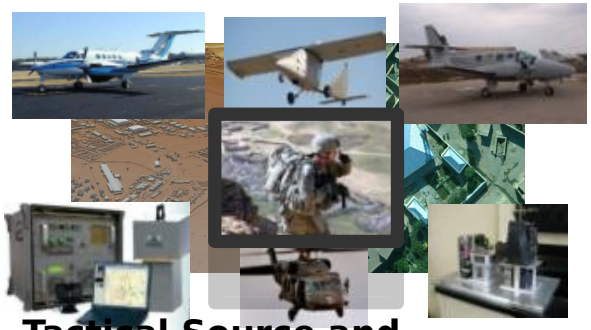


Soldier Geospatial Support and Production (Terrain and Water Resources)



Enterprise Development and Support

Geospatial Engineering Research, Development, Technology and Evaluation



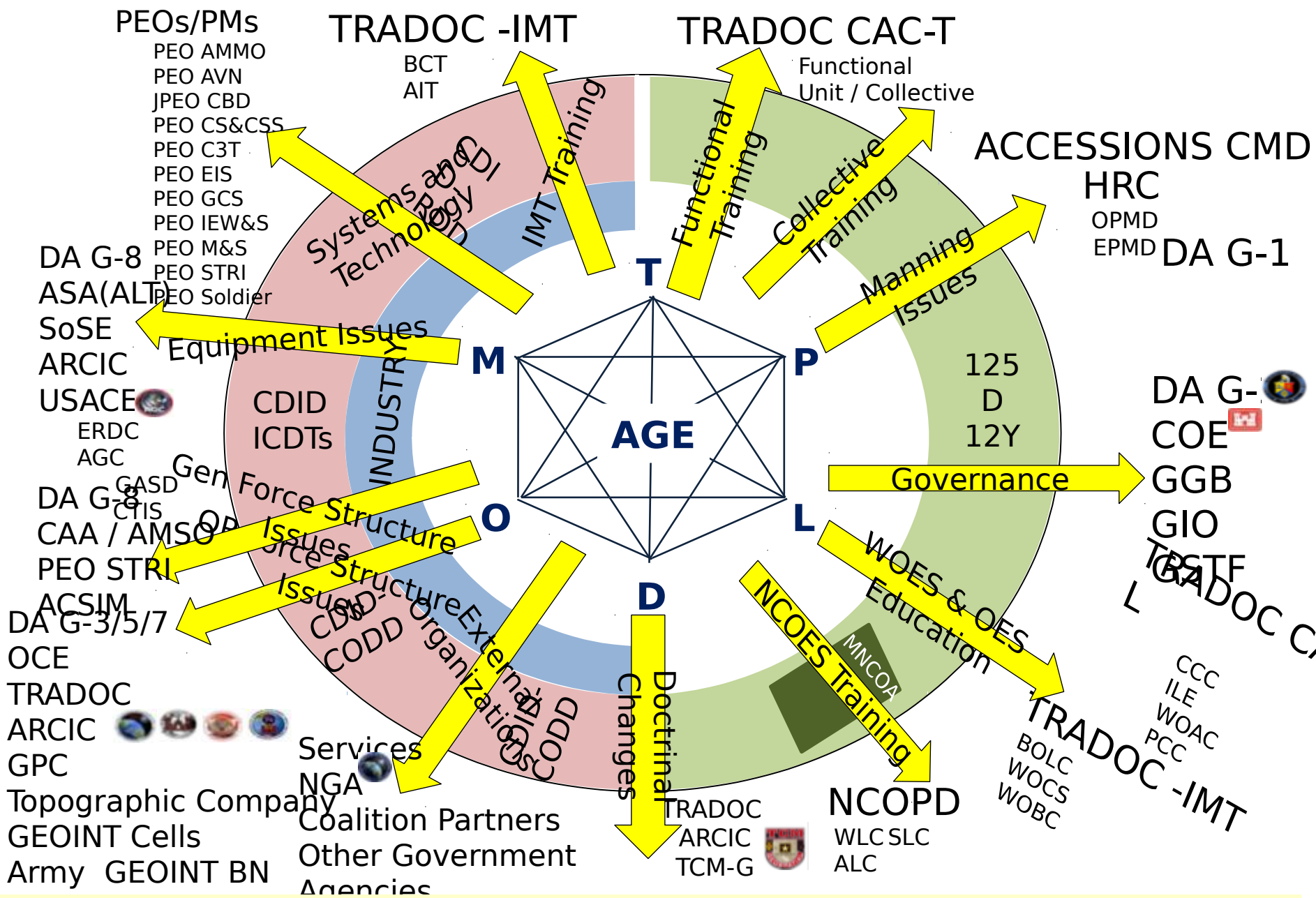
Tactical Source and Enterprise Solutions

Connections

- Divisions / Districts
- GEOINT Cells
- ARSTAF
- Special Operations
- GPCs, Topographic Teams
- ASA(ALT) OCSE
- PEO I, STRI, IEWS, and C3T
- TRADOC(ARCIC)
- TCM Geospatial
- TCM Sensor Processing
- ASPO
- CTSF
- SMDC
- OSD AT&L / HSCB
- NGA
- USAID
- Marine Corps

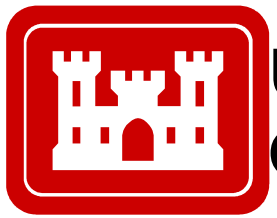
Systems Acquisition and Program Management

U.S. Army Geospatial Center



A complex environment with many stakeholders and various lines of effort
ALL working together to move the AGE implementation forward

Shaping Our Future



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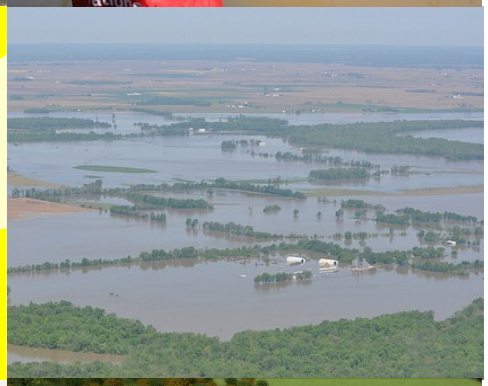
Perception vs. Reality

Responsive
Joint
"Life Cycle"
International
Community Members
Anticipatory
Interagency
"Full – Service"
"Solutioneers"



Expensive
Doesn't Communicate
Slow
Can't Be Trusted
Bureaucratic
Arrogant
Self- Absorbed

Battling Perception vs. Reality With "Targeted" Outreach

GLMRIS Report
Public Information Campaign / Chicago

Lake Tahoe Summit
Capabilities Display / South Pacific Division

Leaders Emeritus
Strategic Engagement / HQ USACE

"First Pitch"
Recreation Safety / Springfield, MO

Responsive
Joint
"Life Cycle"
International
Community Members
Anticipatory
Interagency
"Full – Service"
"Solutioneers"

John Day Lock and Dam
Water Safety / Oregon

Media Outreach
Talk Show / Albuquerque, NM

Expensive
Doesn't Communicate
Slow
Can't Be Trusted
Bureaucratic
Arrogant
Self- Absorbed

Civil Works Budget
Press Conference / USACE HQ

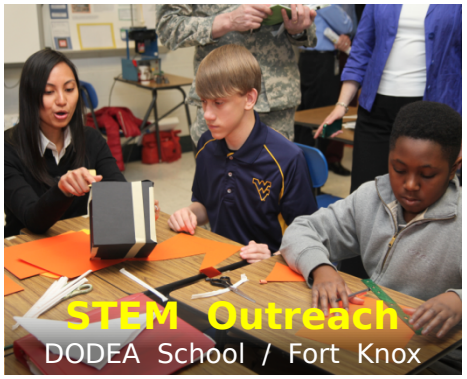
National Press Club
Hurricane SANDY Update / Washington, DC

twitter

Lake Isabella Dam
Property Owners Public Meeting / Sacramento

Foreign Press Center
USACE Overview / Washington, DC

Talent Management



Plan — Shape the workforce by managing skills / knowledge

Workload - Workforce Balancing / Competency Management (CoPs)

Recruit — Win the war for talent by getting the right person in the right job

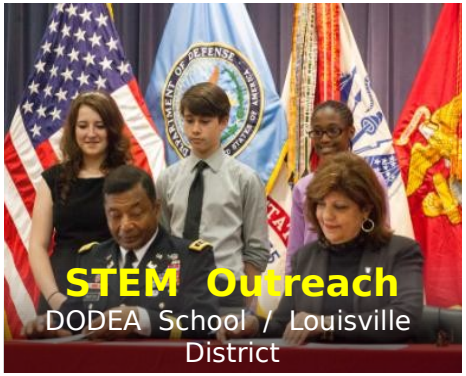
Diversity / STEM Outreach / Wounded Warriors / Soldier Transition

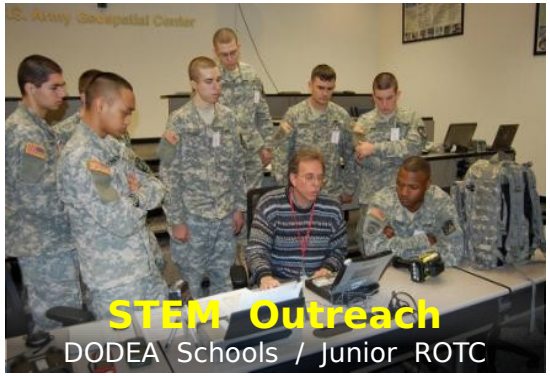
Develop — Shape the workforce by providing enrichment opportunities

Technical Workforce / Leader Development / Emerging Leaders

Retain — Prevent talent loss by valuing employee contributions

Performance Management / Family Readiness / Knowledge Management





Questions ?

Speaker
Title
U. S. Army Corps of Engineers

Date

U.S.ARMY

US Army Corps of Engineers
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